QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	11 set /351-400 cum	391.08	22	22

AE-10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Smitha .N.L
AE W10

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-07-29-35** **Date: 20-05-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-05-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	_
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-07-29-35** **Date: 15-06-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	18-05-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-07-29-35** **Date: 20-05-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	17-05-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-05-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-07-29-35** **Date: 20-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.56	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.23	_

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-07-29-35** **Date: 19-05-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-05-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	278	278	5.6	94.4	90-100
3	10 mm	2754	3032	60.6	39.4	25-55
4	4.75 mm	1754	4786	95.7	4.3	0-10
5	Pan	214	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-07-29-35** **Date: 19-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-07-29-35** **Date: 19-05-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-05-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 17-05-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Assistant Executive Engineer
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BBMP, Bangalore - 97

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-07-29-35** **Date: 19-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 08/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	149.20 X 149.76 X 149.18	22344	8.900	563.0	25.2	25.2
2	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	151.72 X 149.82 X 151.55	22730	8.373	594.3	26.1	
3	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	151.07 X 150.40 X 149.32	22721	8.550	553.7	24.4	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 29/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	151.44 X 150.79 X 150.15	22835	9.005	754.9	33.1	32.9
2	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	149.33 X 150.86 X 150.81	22528	8.747	729.7	32.4	
3	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	149.85 X 149.14 X 149.85	22349	8.674	745.2	33.3	

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 08/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	150.12 X 151.65 X 150.71	22767	8.900	575.1	25.3	25.3
2	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	151.68 X 151.56 X 150.63	22989	8.373	608.3	26.5	
3	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	151.03 X 151.99 X 151.63	22955	8.550	555.5	24.2	

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-07-29-35** **Date: 29/06/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-06-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	151.22 X 150.72 X 150.05	22793	9.005	771.9	33.9	33.3
2	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	149.45 X 151.95 X 149.02	22709	8.747	748.1	32.9	
3	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	149.72 X 150.00 X 149.87	22457	8.674	744.5	33.2	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 08/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	150.48 X 151.47 X 149.63	22793	8.900	574.1	25.2	25.5
2	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	150.92 X 150.13 X 150.79	22657	8.373	600.1	26.5	
3	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	149.90 X 149.80 X 150.71	22455	8.550	559.3	24.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

Sweetha -NL
AE 1310

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-07-29-35** **Date: 29/06/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-06-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	150.07 X 150.96 X 149.92	22654	9.005	753.0	33.2	33.3
2	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	149.05 X 149.62 X 149.19	22301	8.747	731.1	32.8	
3	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	150.87 X 151.93 X 150.67	22922	8.674	773.4	33.7	

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AE W10

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-07-29-35** **Date: 08/06/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-06-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	151.22 X 149.66 X 151.39	22632	8.900	576.2	25.5	25.6
2	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	151.17 X 150.73 X 151.48	22785	8.373	601.0	26.4	
3	Cement Concrete Pavement	M30	01/06/2021	08/06/2021	149.29 X 149.10 X 149.54	22259	8.550	555.6	25.0	

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Suvitha .N.R
AE U10

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 29/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	150.30 X 149.20 X 149.02	22424	9.005	757.4	33.8	33.4
2	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	151.62 X 151.88 X 150.00	23028	8.747	750.0	32.6	
3	Cement Concrete Pavement	M30	01/06/2021	29/06/2021	151.42 X 151.90 X 151.65	23000	8.674	780.2	33.9	

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Authorized Signatory
Quality Manager

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****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 09/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	149.09 X 150.24 X 151.95	22399	8.900	564.3	25.2	25.4
2	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	149.10 X 150.84 X 149.83	22490	8.373	595.1	26.5	
3	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	150.57 X 149.29 X 149.39	22478	8.550	553.8	24.6	

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Sunitha .N.K
AE/JIO

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 30/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	150.29 X 149.02 X 149.83	22397	9.005	754.5	33.7	33.2
2	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	150.47 X 150.67 X 151.57	22670	8.747	739.8	32.6	
3	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	150.83 X 149.50 X 150.17	22550	8.674	748.5	33.2	

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Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 09/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

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Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	151.79 X 150.00 X 149.60	22768	8.900	580.1	25.5	25.4
2	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	151.52 X 150.30 X 150.21	22774	8.373	592.3	26.0	
3	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	149.90 X 151.94 X 150.23	22777	8.550	559.6	24.6	

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/06/2021

Lab ID	:	**CP-2021-07-29-35**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	151.44 X 150.67 X 151.98	22818	9.005	754.3	33.1	33.3
2	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	150.54 X 150.63 X 149.65	22677	8.747	745.6	32.9	
3	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	149.95 X 151.52 X 151.25	22721	8.674	770.0	33.9	

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Suvitha .N.K
AE 910

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 09/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	151.53 X 150.41 X 151.19	22792	8.900	586.0	25.7	25.6
2	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	150.96 X 149.39 X 149.66	22552	8.373	598.6	26.5	
3	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	151.76 X 151.44 X 150.42	22983	8.550	563.0	24.5	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 30/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	151.62 X 149.57 X 150.45	22678	9.005	755.8	33.3	33.0
2	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	150.19 X 151.54 X 151.81	22759	8.747	733.9	32.2	
3	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	149.22 X 149.42 X 151.19	22296	8.674	746.8	33.5	

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Sunitha. NR
AE 1/10

CIVIL Pro BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 09/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	151.29 X 151.32 X 149.21	22893	8.900	587.5	25.7	25.6
2	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	149.97 X 151.28 X 149.81	22687	8.373	598.2	26.4	
3	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	150.43 X 149.37 X 149.91	22469	8.550	555.3	24.7	

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AE W10

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 30/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	151.04 X 150.61 X 149.84	22748	9.005	760.9	33.4	33.3
2	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	149.78 X 152.00 X 151.35	22766	8.747	745.7	32.8	
3	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	151.85 X 151.55 X 150.03	23013	8.674	775.4	33.7	

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Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-07-29-35** **Date: 10/06/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/06/2021	10/06/2021	149.05 X 149.82 X 149.10	22331	8.900	563.4	25.2	25.5
2	Cement Concrete Pavement	M30	03/06/2021	10/06/2021	151.19 X 149.80 X 149.92	22647	8.373	607.1	26.8	
3	Cement Concrete Pavement	M30	03/06/2021	10/06/2021	150.30 X 150.74 X 149.44	22655	8.550	556.8	24.6	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-07-29-35** **Date: 01/07/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/06/2021	01/07/2021	149.20 X 150.67 X 151.16	22480	9.005	764.0	34.0	33.3
2	Cement Concrete Pavement	M30	03/06/2021	01/07/2021	150.63 X 150.79 X 150.58	22715	8.747	746.7	32.9	
3	Cement Concrete Pavement	M30	03/06/2021	01/07/2021	151.23 X 149.65 X 151.14	22632	8.674	750.6	33.2	

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Suretha .N.R
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 10/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/06/2021	10/06/2021	149.21 X 151.59 X 149.03	22620	8.900	587.1	26.0	25.4
2	Cement Concrete Pavement	M30	03/06/2021	10/06/2021	149.48 X 151.73 X 150.18	22681	8.373	589.9	26.0	
3	Cement Concrete Pavement	M30	03/06/2021	10/06/2021	149.56 X 151.00 X 151.66	22584	8.550	545.6	24.2	

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Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-07-29-35** **Date: 01/07/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/06/2021	01/07/2021	149.99 X 149.21 X 151.03	22380	9.005	739.7	33.1	32.9
2	Cement Concrete Pavement	M30	03/06/2021	01/07/2021	151.70 X 151.75 X 150.63	23020	8.747	742.4	32.2	
3	Cement Concrete Pavement	M30	03/06/2021	01/07/2021	151.79 X 150.95 X 149.85	22913	8.674	762.9	33.3	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 11/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/06/2021	11/06/2021	150.45 X 150.55 X 151.06	22651	8.900	576.0	25.4	25.6
2	Cement Concrete Pavement	M30	04/06/2021	11/06/2021	149.39 X 149.14 X 150.27	22279	8.373	598.2	26.8	
3	Cement Concrete Pavement	M30	04/06/2021	11/06/2021	149.80 X 150.28 X 150.03	22513	8.550	549.1	24.4	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 02/07/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/06/2021	02/07/2021	150.26 X 149.33 X 149.09	22438	9.005	748.3	33.4	33.1
2	Cement Concrete Pavement	M30	04/06/2021	02/07/2021	150.13 X 149.39 X 150.78	22428	8.747	733.1	32.7	
3	Cement Concrete Pavement	M30	04/06/2021	02/07/2021	149.32 X 150.38 X 151.58	22455	8.674	745.2	33.2	

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Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-07-29-35** **Date: 11/06/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/232/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-06-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/06/2021	11/06/2021	149.95 X 150.98 X 150.75	22641	8.900	577.6	25.5	25.4
2	Cement Concrete Pavement	M30	04/06/2021	11/06/2021	149.06 X 151.89 X 151.89	22641	8.373	593.9	26.2	
3	Cement Concrete Pavement	M30	04/06/2021	11/06/2021	149.61 X 149.26 X 150.97	22330	8.550	545.5	24.4	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-29-35** **Date: 02/07/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommasandra and Surrounding Areas in Ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M.Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/232/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-06-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/06/2021	02/07/2021	149.11 X 150.55 X 149.09	22449	9.005	746.8	33.3	33.2
2	Cement Concrete Pavement	M30	04/06/2021	02/07/2021	149.35 X 149.68 X 151.79	22354	8.747	737.6	33.0	
3	Cement Concrete Pavement	M30	04/06/2021	02/07/2021	151.59 X 151.91 X 149.87	23027	8.674	766.3	33.3	

* The results obtained are satisfactory as per standard requirements.

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Vidyaranyapura Sub Division
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